FILE A.I.A. 35-P-4
1959

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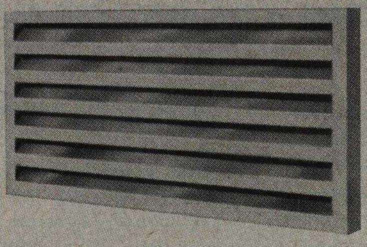
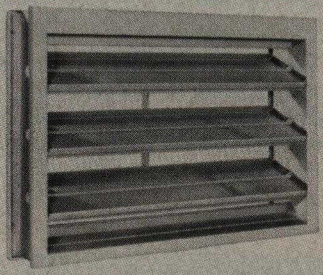
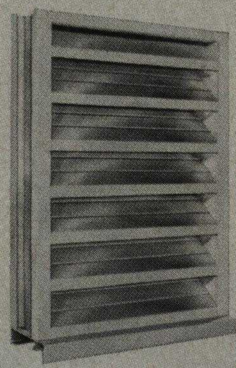
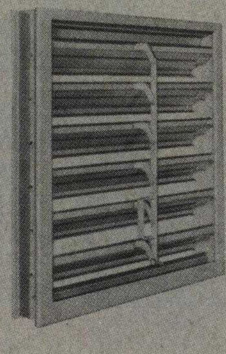


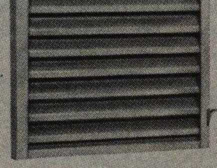


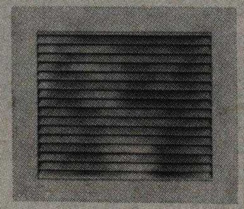
ELLISON®

quality louvres for every purpose









FILE A.I.A. 35-P-4
1959

ELLISON LOUVRE COMPANY, INC.

ELLISON® quality louvres for every purpose

For many years, the name Ellison has been synonymous with quality in the louvre industry. This catalog illustrates the wide range of Ellison Louvres, furnished with movable or fixed blades, available for exterior or interior installation in doors, transoms, walls and partitions.

The use of Ellison Louvres with movable blades is recommended wherever controlled cross ventilation is desired. Fixed blade designs are available wherever constant ventilation without adjustment of blades is suitable.

The Ellison Louvre Company, Inc. is represented in most of the major cities in the country. For information regarding Ellison representatives in specific areas, direct inquiries to the factory office in Marietta, Ohio.

scientifically designed

Ellison Louvre styles have been developed over the years to meet the specific ventilating needs of the building industry. Close and constant association with architects and builders throughout the country has kept Ellison designs abreast of the ever changing requirements for louvre type ventilation.

Complete laboratory facilities offer an assurance that all louvres have been designed to meet the most exacting requirements. Precise performance data is available for all louvre designs, eliminating guesswork in the choice of styles, materials and sizes best meeting specific needs. The fully equipped laboratory permits testing under all conditions while louvre requirements are still in the planning stage.

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Louvres for Heavy Duty Uses

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Combination Units ....page 12
Automatic Blades ....page 13
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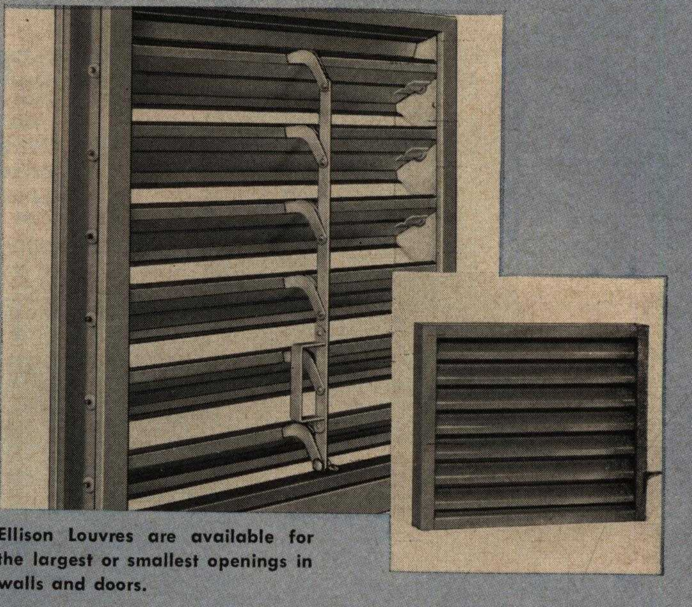


Ellison Louvres are available for the largest or smallest openings in walls and doors.

installations

Arizona State College
Flagstaff, Arizona
Redwood High School
Larkspur, Corte Madera, California
Montview Boulevard Presbyterian Church
Denver, Colorado
Municipal Building
Wallingford, Connecticut
J. Hillis Miller Teaching Hospital
Gainesville, Florida
Florida State University
Tallahassee, Florida
Columbus City Hospital
Columbus, Georgia
Zollner Machine Works, Inc.
Fort Wayne, Indiana

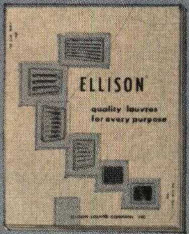
Family Housing
Lake Charles Air Force Base,
Louisiana
Consumer Power Company
Saginaw, Michigan
Minneapolis-Honeywell Regulator Co.
Golden Valley, Minnesota
International Business Machines Corporation
Rochester, Minnesota
Omaha Public Power District
Omaha, Nebraska
Fairleigh Dickinson University
Rutherford, New Jersey
Northside Hospital
Rochester, New York
R. J. Reynolds Tobacco Co.
Winston-Salem, North Carolina

Cleveland Clinic
Cleveland, Ohio
Harrisburg State Hospital
Harrisburg, Pennsylvania
Pennsylvania State University
University Park, Pennsylvania
Tennessee Wesleyan College
Athens, Tennessee
Enlisted Men's Barracks
Fort Sam Houston, Texas
U. S. Naval Mine Depot
Yorktown, Virginia
Chelan High School
Chelan, Washington
Memorial Hospital
Appleton, Wisconsin

diversity

The Ellison Louvre Company, Inc. is one of the very few louvre manufacturers equipped to offer a full range of louvre styles fabricated of sheet metals and extruded aluminum. Louvres for doors and walls can be made of the many sheet metals now available to the building industry. In addition, a complete line of heavy duty movable and fixed blade wall louvres is available in extruded aluminum.

Diversity of design is, for all practical purposes, unlimited. Standard styles shown in this catalog will meet the vast majority of requirements. Ellison experience and facilities insure adaptation of designs to the most unusual ventilating problems.



Key to Cover

The louvres pictured on the front cover are illustrative of the wide variety of Ellison Louvres available for all ventilating needs. Beginning at the top, the photographs are as follows:

- Style E-111 heavy duty fixed blade louvre made 2" thick. See page 10.
- Style E-155 airtight movable blade louvre. See page 8.
- Style E-109-X extruded aluminum louvre with fixed blades. See page 10. Note the special extended bottom frame sill, discussed on page 15.
- Style E-101 heavy duty movable blade louvre. See page 6.
- Style A movable blade door louvre. See page 4.
- Style E-146-1 fixed blade door louvre with flat flange all around one side. See page 5.

The installations listed at the left have been chosen to illustrate the fact that Ellison Louvres have been installed in many different types of buildings in all sections of the country. Many of the installations listed included major louvre requirements, in some only a relatively few louvres were installed. However, they are all illustrative of Ellison's ability to furnish a complete assortment of louvres for the most varied requirements, large or small.

The Ellison Louvre Company, Inc. welcomes inquiries in regard to the possible use of louvres to meet ventilating problems. Installations throughout the country offer convincing evidence of Ellison's wide experience in the field of louvre type ventilation.

sheet metal louvres

Ellison sheet metal louvres are regularly fabricated of commercial grade cold rolled or galvanized steel. On request, and subject to availability, they are often made of such metals as copper, bronze, stainless steel and aluminum.

Gauges vary with design and reference should be made to specific information given for the various styles illustrated. Generally, however, heavy duty wall louvres are fabricated of metals no lighter than 16 gauge steel. Door louvres are made of 18 or 20 gauge steel, or other metals of similar thickness, as indicated on pages 4 and 5.

There is a greater flexibility in the use of sheet metal louvres than is possible with extruded aluminum units. Freedom in the shaping of sheet metals and in the variability of louvre thicknesses makes formed units more readily adaptable to the most unusual installations.

extruded aluminum louvres

Fabricated of 12 gauge aluminum extrusions, alloy 6063-T5, Ellison extruded aluminum louvres are available with movable or fixed blades. Primarily intended for installation in exterior walls, extruded aluminum louvres were developed to give architects, owners and builders more complete freedom in the choice of materials and architectural design. They represent the movable and fixed blade shapes most widely in demand for use in exterior walls.

Although limited in some applications by the necessity for the use of stock extrusions, extruded aluminum louvres have helped to open up an entirely new area in architectural styling. Light in weight and with a natural beauty, extruded units are particularly adaptable for use wherever long runs with a continuous blade appearance are desired.

finishes

for steel

There are no finer finishes available than the standard finish given steel Ellison louvres. All steel sections not over 72" wide and high are bonderized and given a baked prime coat plus a baked enamel finish. Bonderizing offers the finest possible metal protection and adhesive base for paint. The standard baked prime coat has an epoxy resin base insuring long life under the most arduous conditions.

Ellison craftsmen can match any solid color sample desired for the baked enamel finish coat. For lasting beauty, the finish coat should be baked on at the factory in preference to an air dried finish applied at the job.

for aluminum

Aluminum louvres are regularly furnished with natural mill finish without metal treatment. When specified, anodized and/or brushed or polished finishes are available.

for other metals

Other metals, such as copper, bronze and stainless steel, are furnished with natural mill finish without metal treatment. Every effort is made to furnish special finishes when specified.

ELLISON VENTILATING LOUVRES
FOR DOORS AND INTERIOR USE

Ellison Louvres for installation in doors and other interior uses combine superior ventilation with outstanding durability and neatness of appearance. The Ellison standard rounded blade design is an exclusive Ellison feature and an assurance of a quality product offering the finest in controlled air flow.

Movable blade louvres cost only slightly more than those with fixed blades and are recommended whenever controlled cross ventilation is desired. Fixed blade louvres, with the standard Ellison blade shape or other blade designs, are available wherever constant ventilation without adjustment is suitable.

construction

The standard rounded blade Ellison Louvres have frame members drawn and spot-welded to provide flush corners. Movable blades pivot within holes extruded in the jamb frames. The operator lever and tie-bar assembly assure equal and positive adjustment of all blades.

Alternate fixed blade styles require various methods of construction, including spot-welding, tenoning, riveting and soldering, as dictated by design and material. Ellison's complete facilities assure quality craftsmanship.

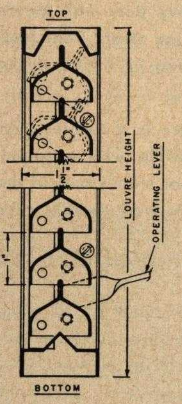
Fabrication is of high grade furniture steel, or other available materials when specified.

movable blade

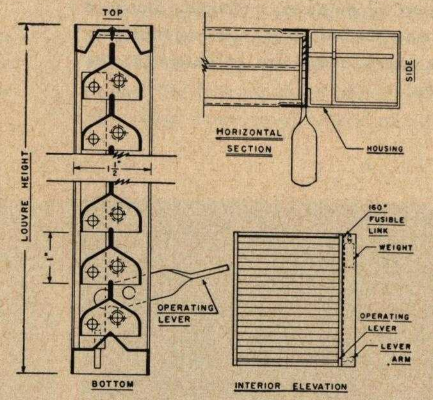
Used wherever controlled interior cross ventilation is needed, Ellison's patented movable blade Louvres are easily adjustable and completely vision-proof. The horizontal lines and softly rounded blade shape blend easily with any door.

Fabrication is of 18 gauge cold rolled steel, or other available metals of equal thickness that may be specified. The material gauge is not variable and louvre thickness is always 1½".

Specify louvre style numbers after reference to mouldings on page 5.



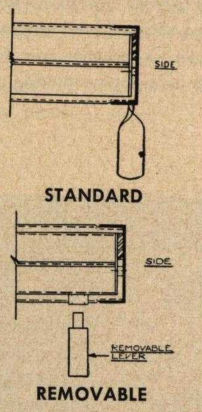
style	thick	mldg.
A	1½"	①
B	1½"	②
C	1½"	③
D	1½"	④
H	1½"	⑤
C-1	1½"	⑥



style	thick	mldg.
LA	1½"	①
LB	1½"	②
LC	1½"	③
LD	1½"	④
LH	1½"	⑤

Complete with 160°F. fusible link and housed mechanism for automatic closing in case of fire. 10" minimum height.

Also suitable for small wall openings. See Style E-101, page 6, for heavy duty requirements.



Operating levers can be located in any one of four corners best suited for specific installations.

Specify removable lever for blade adjustments for designated persons only. Slight additional charge.

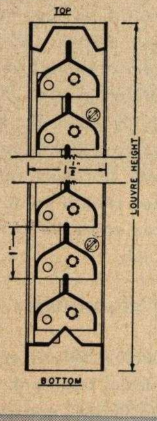
fixed blade

The standard fixed blade Ellison design is illustrated at the immediate right. Fabrication is always of 18 gauge cold rolled steel, or other available metals of equal thickness when specified. Louvre thickness is always 1½".

Fixer louvres, other than the standard Ellison design and SF-2, are of 20 gauge cold rolled steel, or other available metals of equal thickness when specified. Some styles can be of heavier material. Louvre thicknesses vary.

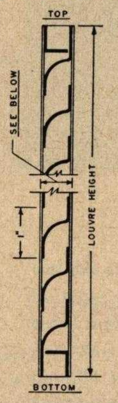
Specify louvre style numbers after reference to mouldings on page 5.

STANDARD



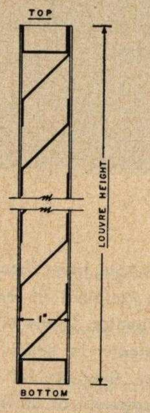
style	thick	mldg.
AF	1½"	①
BF	1½"	②
CF	1½"	③
DF	1½"	④
HF	1½"	⑤
CF-1	1½"	⑥

STANDARD



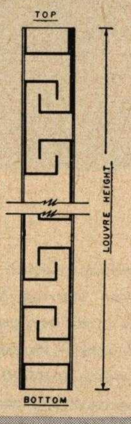
Style SF-2. Available 20 gauge cold rolled steel, 9/16" thick. If 18 gauge, ⅝" thick. If 16 gauge, 11/16" thick.

"Z" BLADE



style	thick	mldg.
E-147	1"	①
E-147-1	1"	③
E-147-2	1"	⑦

LIGHTPROOF



style	thick	mldg.
E-112	1"	①
E-112-1	1"	③
E-112-2	1"	⑦
E-112-3	1½"	⑤

finish

Steel door louvres are bonderized and given a baked prime coat, plus a baked enamel finish when desired. Bonderite and the prime coat with an epoxy resin base insure the finest possible metal protection.

Any solid color sample can be matched for the finish coat. A factory baked enamel finish is recommended as superior to an air dried finish applied at the job.

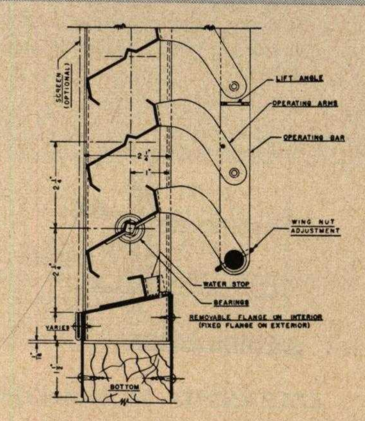
Metals other than steel are usually furnished with mill finish. Every effort is made to furnish special finishes when specified.

specifications

Door louvres shall be Style ______, product of Ellison Louvre Company, Inc., Marietta, Ohio. Made of cold rolled steel, 18 gauge (for Ellison standard blade shape—see gauge other styles).

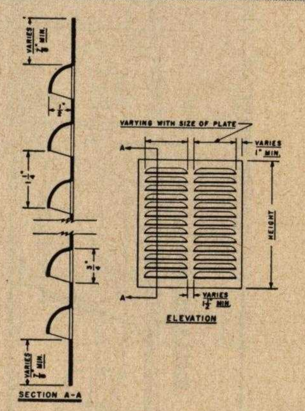
Steel bonderized and given baked prime coat with epoxy resin base. Finish coat solid color factory applied baked enamel, color selection by the architect. (If material is other than steel, specify mill finish or special finish desired.)

Louvres purchased and installed by this contractor. Confirm sizes and quantities with door manufacturer.



Style E-101-C-7 This 2¼" thick ball bearing louvre is an adaptation of the 4" thick Style E-101 illustrated on page 6.

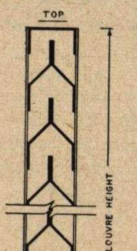
Made of 16 gauge steel, or other metals of equal thickness, it is intended for installation in heavy industrial doors, or walls where the standard 4" thick E-101 is not desired. Mouldings are furnished as needed for installation.



Style E-114 This stamped plate with hooded slots is used primarily as a door louvre. However, it is often installed in openings in interior panels or walls.

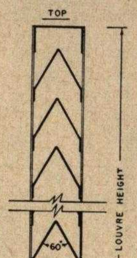
Fabrication is of 16 or 18 gauge cold rolled steel, or other metals of equal thickness. Maximum single plate width is 42". Slots may be made 3", 4", 6", 7", 8" or 12" wide, varying with plate size.

INVERTED "Y"



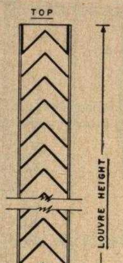
style	thick	mldg.
E-144	1"	①
E-144-1	1"	③
E-144-2	1"	⑦
E-144-3	¾"	①

INVERTED "V" 60°



style	thick	mldg.
E-145	1"	①
E-145-1	1"	③
E-145-2	1"	⑦
E-145-3	¾"	①
E-145-4	1¼"	①

INVERTED "V" 45°

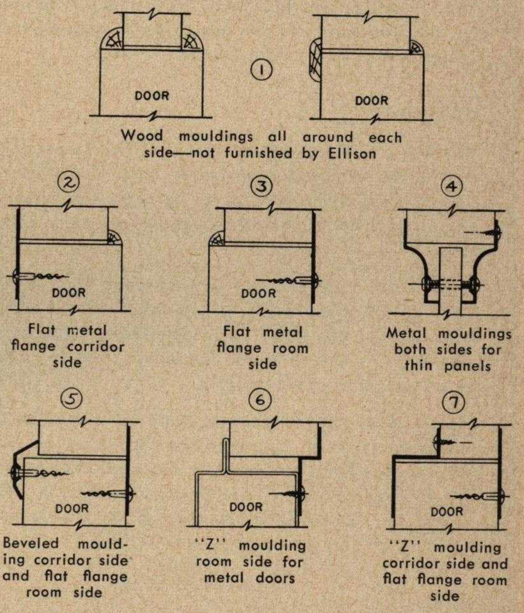


style	thick	mldg.
E-146	1"	①
E-146-1	1"	③
E-146-2	1"	⑦

mouldings

Door louvres are installed with wood and/or metal mouldings. When specified, Ellison Louvres can be equipped with metal mouldings as illustrated below. Wood mouldings are not furnished.

When specifying, designate Ellison style numbers by matching the desired blade design and type of mouldings.



Wood mouldings all around each side—not furnished by Ellison

Flat metal flange corridor side

Flat metal flange room side

Metal mouldings both sides for thin panels

Beveled moulding corridor side and flat flange room side

"Z" moulding room side for metal doors

"Z" moulding corridor side and flat flange room side

Combinations of louvre designs and mouldings are not limited to the style numbers listed under the drawings at the left. Other combinations are available upon inquiry.

Always advise door thickness when louvres are to have metal moulding both sides. Standard mouldings are made for 1⅜", 1½" or 1¾" thick doors. Mouldings for doors of other thicknesses are available for a slight additional charge.

sizes

Louvres are custom made to exact sizes desired. Openings should be ⅛" larger than louvre width and height dimensions.

ELLISON MOVABLE BLADE LOUVRES

HEAVY DUTY

Ellison Movable Blade Louvres for heavy duty use are illustrated on the following four pages. They are used wherever controlled air flow by adjustment of louvre blades is required for through the wall type ventilation.

materials

Sheet metal styles are regularly made of 16 gauge cold rolled or galvanized steel sheets. On request and subject to availability, they are often made of such metals as copper, stainless steel and aluminum sheets of thickness equal to 16 gauge steel.

Most sheet metal styles can be made of metals as heavy as 14 gauge steel. For movable blade units of sheet metal heavier than 14 gauge steel, see Style E-150-D-1, page 9.

Extruded aluminum movable blade louvres are made of 12 gauge aluminum extrusions, alloy 6063-T5.

bearings and pivots

Sheet metal movable blade designs have blades pivoted with stainless steel ball bearings in cadmium plated races. They can be equipped, when desired, with steel or brass pivots and self-lubricating bronze bearings.

Extruded aluminum units are regularly equipped with nylon bearings and aluminum pivot pins. If desired, they can be furnished with the same type of bearings or pivots available for sheet metal louvres.

operators

Movable blade louvres are chain or hand operated, with the blades adjustable anywhere from full open to full closed. They are furnished, as desired, with either chains and chain holders or with wing nut operators and handholds.

Sheet metal Style E-101-4 and extruded Style E-101-W-4 offer an alternate mode of operation to movable units with visible operating arms and bars. The operating mechanism is hidden within the louvre frame and actuated by a removable crank operator.

Louvres with visible operating bars are adaptable to motor or mechanical operation as illustrated on page 7. Motors are employed wherever automatic push-button control is required, while mechanical operation is often desirable for simultaneous operation of all louvres arranged in banks or tiers in a multi-unit installation.

size

The maximum section dimensions, unless otherwise indicated with the specific styles illustrated, are 72" x 72". Where openings exceed the maximum section size, louvres are made in multiple sections joined with battens, each section having a separate operator. Under certain conditions, it is occasionally possible to furnish units slightly over 72" high in one section.

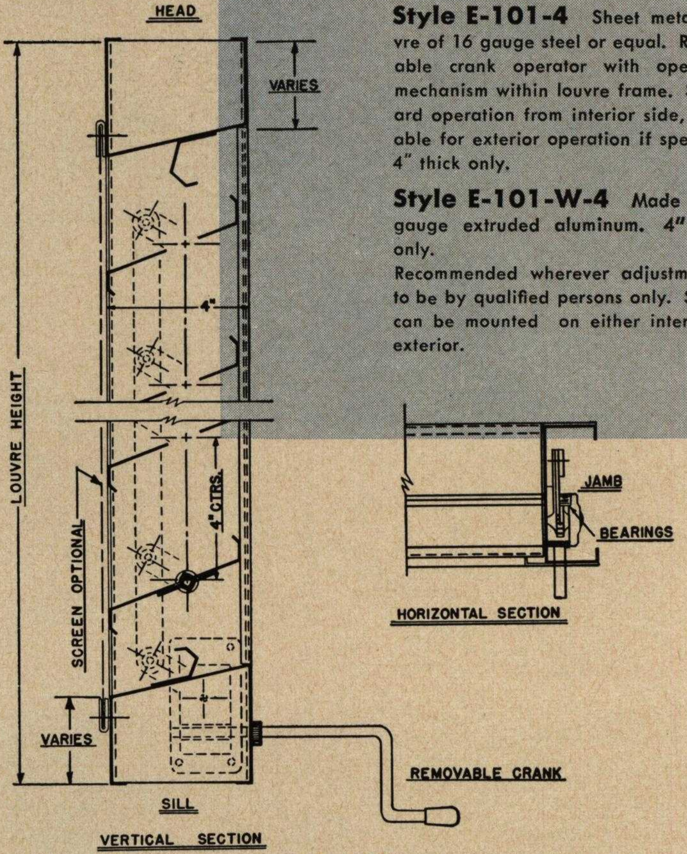
accessories

Ellison Louvres can be equipped with 160° F. fusible links (N.B.F.U. approved) whenever they are desired for fire control. Manual adjustment is in no way impeded.

For information regarding screens, see the back cover. Finishes are described on page 3. Methods of installation, page 15.

Style E-101-4 Sheet metal louvre of 16 gauge steel or equal. Removable crank operator with operating mechanism within louvre frame. Standard operation from interior side, available for exterior operation if specified. 4" thick only.

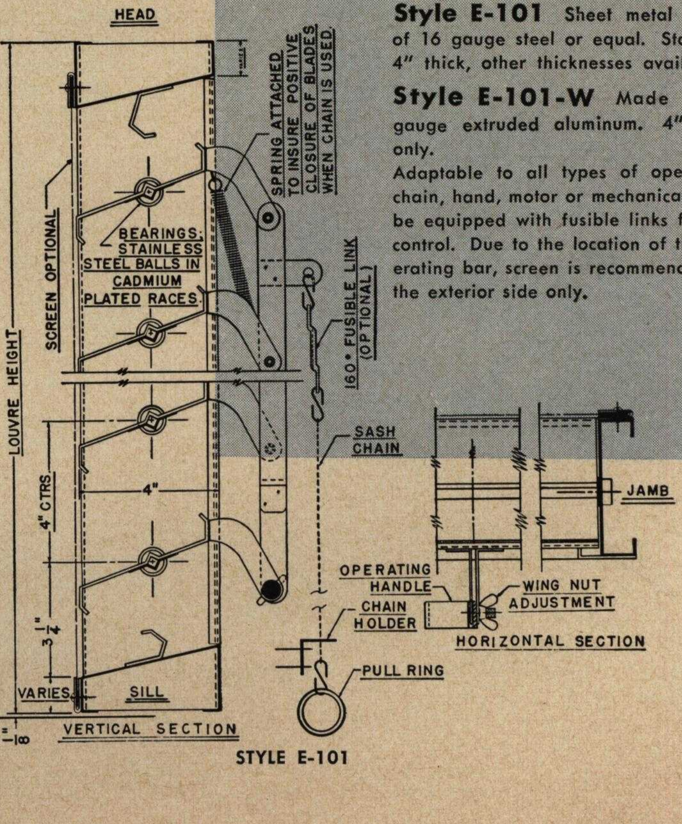
Style E-101-W-4 Made of 12 gauge extruded aluminum. 4" thick only.
Recommended wherever adjustment is to be by qualified persons only. Screen can be mounted on either interior or exterior.



STYLE E-101-4

Style E-101 Sheet metal louvre of 16 gauge steel or equal. Standard 4" thick, other thicknesses available.

Style E-101-W Made of 12 gauge extruded aluminum. 4" thick only.
Adaptable to all types of operation, chain, hand, motor or mechanical. Can be equipped with fusible links for fire control. Due to the location of the operating bar, screen is recommended on the exterior side only.



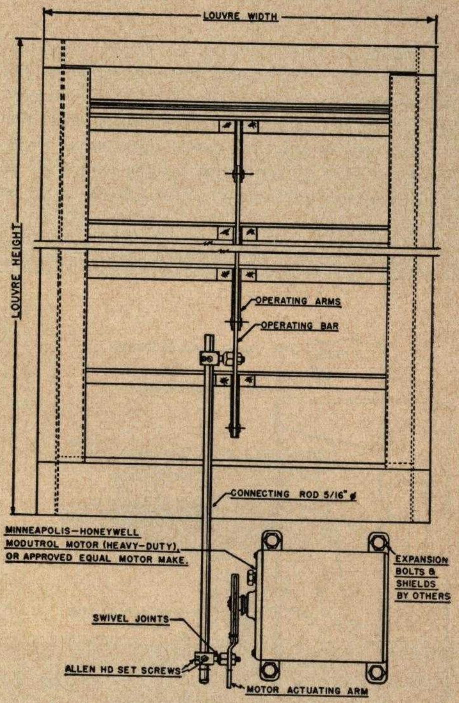
STYLE E-101

MOTOR OPERATORS

Motor operators are available for automatic push-button control of Ellison movable blade units. The illustration at the right illustrates a typical arrangement.

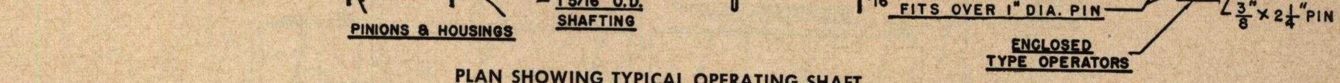
notes —

1. Electrical rating: Low voltage A.C. only motors furnished with transformer for operation from 110V, 220V, 440V 50-60 cycle A.C.
2. Fans: Motor operator may be wired in conjunction with a fan circuit which will open louvre when fan is turned on or close louvre when fan is turned off.
3. Rheostat switch: Motor operator may be wired in conjunction with a rheostat switch which can control louvre blades from open setting to any degree of blade setting over to full closed position.
4. Thermostats: Motor operators may be wired in conjunction with a thermostat which will open or close louvre to any degree of temperature setting.
5. Sizes: One motor can operate a louvre one section wide and a maximum number of louvre sections totaling 40 to 70 sq. ft., depending on motor type.
6. Positions: Motor operators can be placed at sill as shown or can be placed at head of louvre.
7. Maximum louvre section size is 72" x 72".
8. In special cases one motor operator can operate more than one louvre section wide. Inquire.

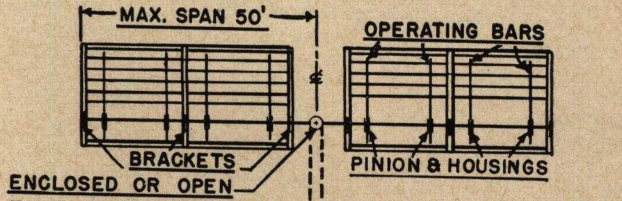


MECHANICAL OPERATORS

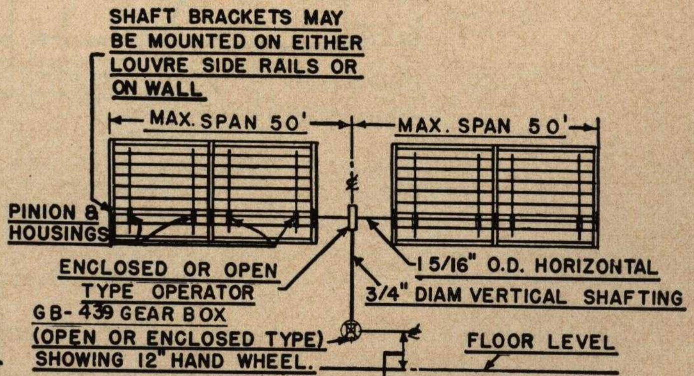
Movable blade louvres can be mechanically operated wherever banks or tiers of a multiple louvre installation are desired to have simultaneous adjustment of all blades. The illustrations below are typical of the arrangements possible with mechanical operation.



PLAN SHOWING TYPICAL OPERATING SHAFT



CHAIN TYPE CONTROL
INTERIOR ELEVATION


SHAFT BRACKETS MAY BE MOUNTED ON EITHER LOUVRE SIDE RAILS OR ON WALL
MAX. SPAN 50'
MAX. SPAN 50'
PINION & HOUSINGS
ENCLOSED OR OPEN TYPE OPERATOR
1 5/16" O.D. HORIZONTAL
3/4" DIAM VERTICAL SHAFTING
GB-439 GEAR BOX (OPEN OR ENCLOSED TYPE) SHOWING 12" HAND WHEEL.
FLOOR LEVEL
APPROX. 4 FT.

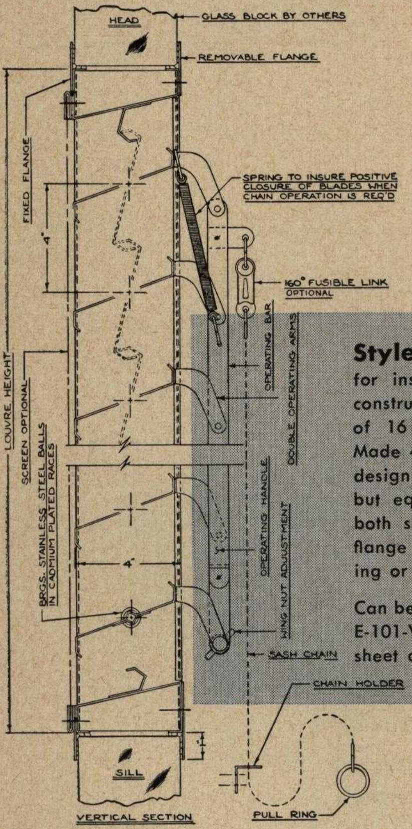
ROD TYPE CONTROL
INTERIOR ELEVATION

ELLISON MOVABLE BLADE LOUVRES

HEAVY DUTY

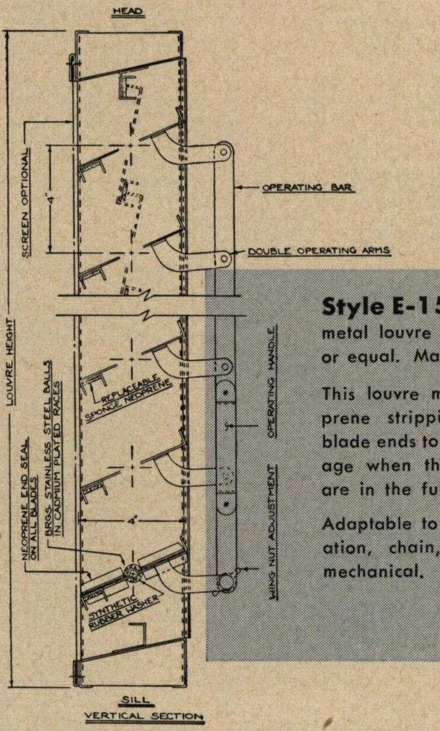
The movable blade designs illustrated on these pages operate for the most part on the same basic principle as the movable units described and illustrated on page 6. They represent adaptations which have been developed and standardized over the years to meet the varying requirements for heavy duty louvres with adjustable blades. These standard Ellison styles are an assurance of the availability of the proper design for use under specific conditions. Standardization of designs to meet special uses eliminates high costs and extended shipping schedules which are invariably involved in the fabrication of louvres completely special in design and construction.

Ellison standard styles insure the completely satisfactory job performance possible only with designs which have already proved themselves in actual installations.



Style E-101-6 Intended for installation in glass block construction. Sheet metal louvre of 16 gauge steel or equal. Made 4" thick. Exactly same in design as Style E-101, page 6, but equipped with flat flanges both sides. Removable interior flange allows installation during or after wall construction.

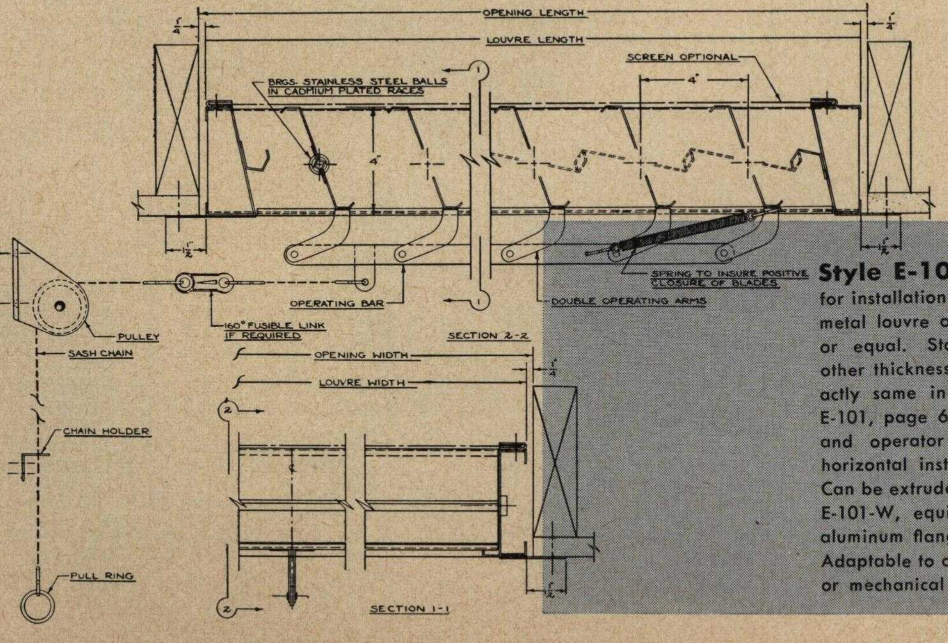
Can be extruded aluminum Style E-101-W, page 6, equipped with sheet aluminum flanges.



Style E-155 Airtight sheet metal louvre of 16 gauge steel or equal. Made 4" thick.

This louvre makes use of Neoprene stripping and seals at blade ends to eliminate air seepage when the movable blades are in the fully closed position.

Adaptable to all types of operation, chain, hand, motor or mechanical.



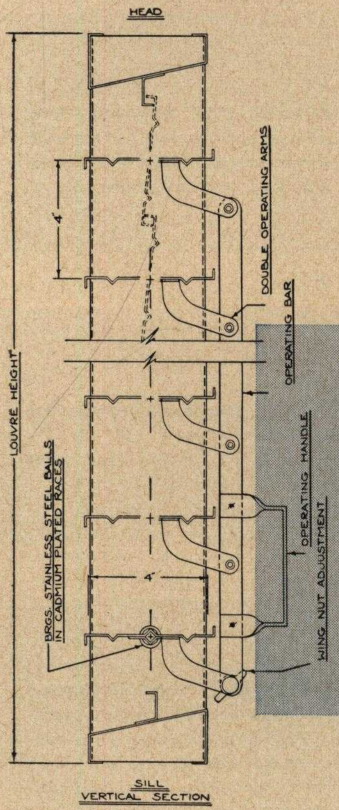
Style E-101-5 Intended for installation in ceilings. Sheet metal louvre of 16 gauge steel or equal. Standard 4" thick, other thicknesses available. Exactly same in design as Style E-101, page 6, but with flange and operator adaptations for horizontal installation.

Can be extruded aluminum Style E-101-W, equipped with sheet aluminum flanges.

Adaptable to chain, hand, motor or mechanical operation.

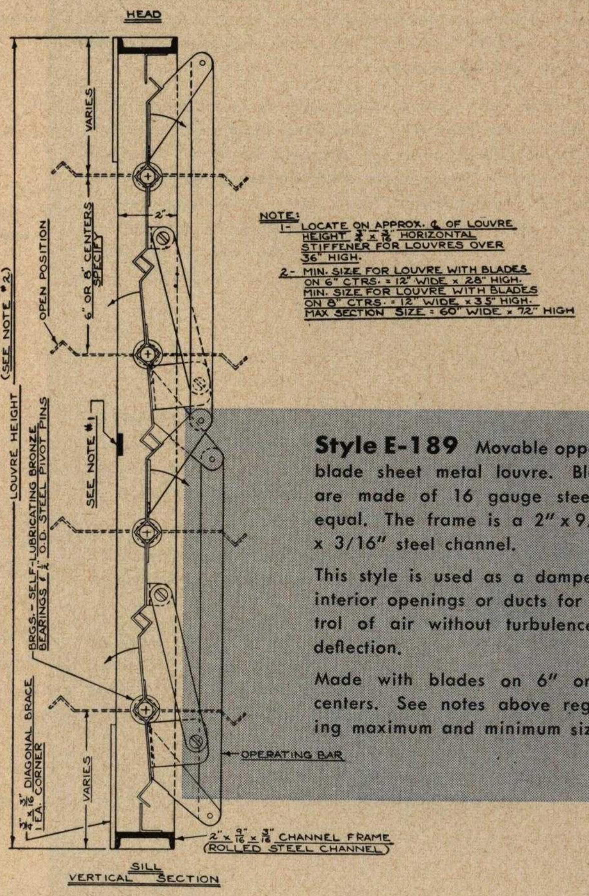
Ellison's factory facilities and engineering techniques are flexible and complete. When it is felt that standard styles will not meet highly unusual job conditions, louvre adaptations are designed and fabricated in close cooperation with the job architects or engineers.

The Ellison Louvre Company, Inc., welcomes inquiries and the opportunity to use its resources to meet the most demanding requirements.



Style E-156 Movable straight blade sheet metal louvre of 16 gauge steel or equal. Specify 4" or 5" thick. When the frame is 5", blades fully open do not extend beyond the louvre frame and permit use of screen. Maximum section width 48", height 72".

This style offers maximum free area and is especially suitable for installation in ducts.

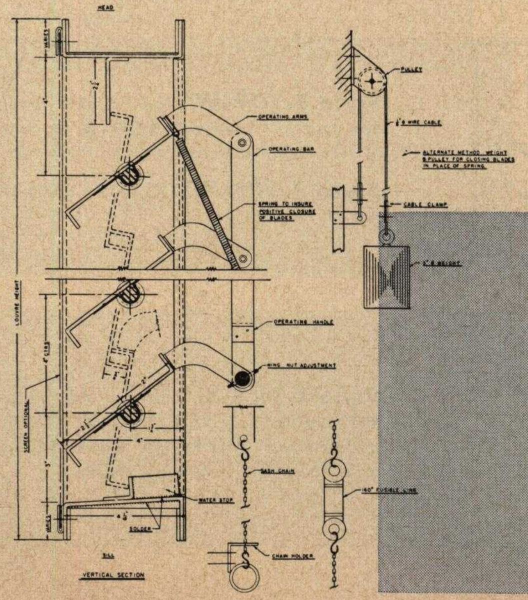

HEAD
VARIES
2"
6" OR 8" CENTERS SPECIFY
OPEN POSITION
LOUVRE HEIGHT (SEE NOTE #2)
SEE NOTE #1
BRGS. - SELF-LUBRICATING BRONZE BEARINGS & 1/2" O.D. STEEL PIVOT PINS
3/4" x 3/16" DIAGONAL BRACE 1 EA. CORNER
VARIES
OPERATING BAR
2" x 9/16" x 3/16" CHANNEL FRAME (ROLLED STEEL CHANNEL)
SILL
VERTICAL SECTION

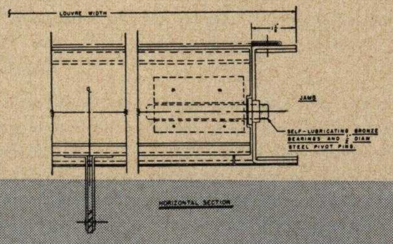
NOTE:
1- LOCATE ON APPROX. ℄ OF LOUVRE HEIGHT 3/4" x 3/16" HORIZONTAL STIFFENER FOR LOUVRES OVER 36" HIGH.
2- MIN. SIZE FOR LOUVRE WITH BLADES ON 6" CTRS. = 12" WIDE x 28" HIGH. MIN. SIZE FOR LOUVRE WITH BLADES ON 8" CTRS. = 12" WIDE x 35" HIGH. MAX SECTION SIZE = 60" WIDE x 72" HIGH

Style E-189 Movable opposed blade sheet metal louvre. Blades are made of 16 gauge steel or equal. The frame is a 2" x 9/16" x 3/16" steel channel.

This style is used as a damper in interior openings or ducts for control of air without turbulence or deflection.

Made with blades on 6" or 8" centers. See notes above regarding maximum and minimum sizes.




LOUVRE WIDTH
1 1/2"
JAMB
SELF-LUBRICATING BRONZE BEARINGS AND 1/2" DIAM STEEL PIVOT PINS.
HORIZONTAL SECTION

Style E-150-D-1 Extra heavy gauge sheet metal louvre of 10 or 12 gauge steel or equal. Standard 4" thick, other thicknesses available.

Recommended where extremely hard usage is involved. Style E-101, page 6, will meet most requirements.

Adaptable to all types of operation, chain, hand, motor, or mechanical. Weight, pulley, chain and fusible link arrangement is optional.

ELLISON FIXED BLADE LOUVRES

HEAVY DUTY

The Ellison Fixed Blade Louvres illustrated on this page are used wherever the need is for sustained through the wall type ventilation with protection against the elements.

Ellison blade shapes have been designed to offer the best possible weather protection under different free area and air flow requirements. Choice will be dictated by job conditions, including specific ventilation needs, location of opening, weather conditions to which the louvre will be subjected, and appearance.

Fixed blade louvres are often used in combination with movable blade segments. The fixed blades afford maximum protection against the elements in those situations where movable blade units must be operative under all conditions. Combination units are particularly recommended where louvres are being used in unprotected openings for air intake. Combination louvres are illustrated in detail on pages 12 and 13.

materials

Sheet metal fixed blade styles are regularly made of 16 gauge cold rolled or galvanized steel sheets. On request and subject to availability, they are often made of such metals as copper, stainless steel and aluminum sheets of thickness equal to 16 gauge steel.

As indicated at the right, Style E-110 is available in 26 gauge galvanized steel or equal, as well as the heavy 16 gauge material.

When it is necessary, sheet metal styles can be made of metals heavier than 16 gauge steel. However, increased costs are involved. The standard material, with blade shapes designed for strength, has proved more than adequate to meet all but the most unusual conditions.

Extruded aluminum movable blade louvres are made of 12 gauge aluminum extrusions, alloy 6063-T5.

size

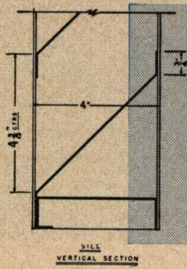
The maximum section dimensions for sheet metal louvres are 72" x 72". Where openings exceed the maximum section size, louvres are made in multiple sections joined with battens. The joining of sections at the mullions is illustrated at the top of page 11. Under certain conditions, it is occasionally possible to furnish units slightly over 72" high in one section.

Extruded aluminum units are normally held to maximum section dimensions of 72" x 72". Greater latitude is possible than with sheet metal units. Where required, sections greater than 72" wide or high can often be furnished with stiffeners giving the necessary support. Extruded fixed blade units can be made in sections while retaining a continuous blade appearance as illustrated on page 11.

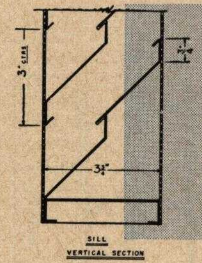
accessories

For information regarding screens, see the back cover. Finishes are described on page 3, optional sill pieces and methods of installation on page 15.

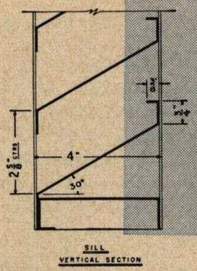
SHEET METAL



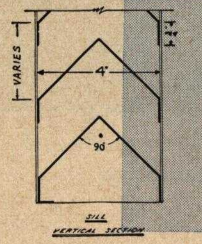
Style E-109 Standard 4" thick, other thicknesses available from 1½" to 8". Blades are set at 45°. Can have return bends same as Style E-111.



Style E-110 3¾" thick only. May be 26 gauge galvanized steel or 16 gauge steel, or other metals of equal thickness—specify. Maximum weather protection.

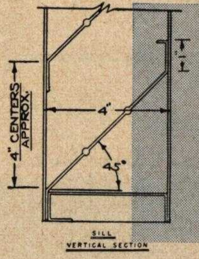


Style E-111 Standard 4" thick, other thicknesses available from 1½" to 8". Blades are set at 30°. Return bends offer added weather protection.



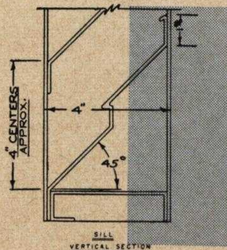
Style E-103-D-2 Sightproof blades. Standard 4" thick, other thicknesses available from 1½" to 8". Designed for interior walls, can be used on exterior.

EXTRUDED



Style E-109-W Legs of side channels turn in. Specify **E-109-X** for legs of side channels turned out. 4" thick only.

Style E-108-W Same as E-109-W but 2" thick.

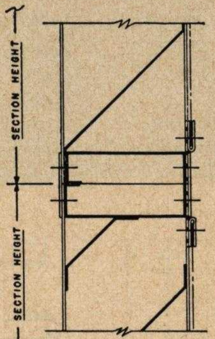


Style E-110-W Legs of side channels turn in. Specify **E-110-X** for legs of side channels turned out. Made 4" thick only. Maximum weather protection.

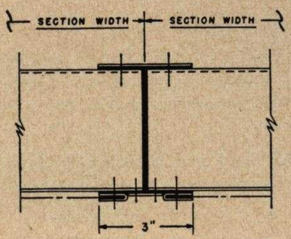
VISIBLE BATTENS

Ellison Louvres are furnished in any size. When openings exceed the maximum section dimensions, the louvres are normally made in multiple sections and joined at the mullions with horizontal or vertical battens as may be required.

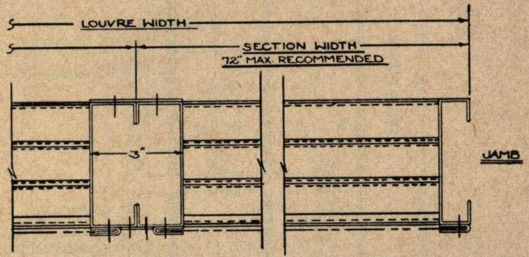
The drawings at the right illustrate louvre sections as they are joined with visible battens at the mullions, those points where the frames of the louvre sections are butted together. Battens are regularly fabricated of the same material as the louvres. The gauge of the material is equivalent to the thickness of 16 gauge steel. Standard battens are furnished at no additional charge.



Two vertical louvre sections joined by horizontal battens.



Two horizontal louvre sections joined by vertical battens. Standard fixed blade louvres have legs of the side channels turned in.



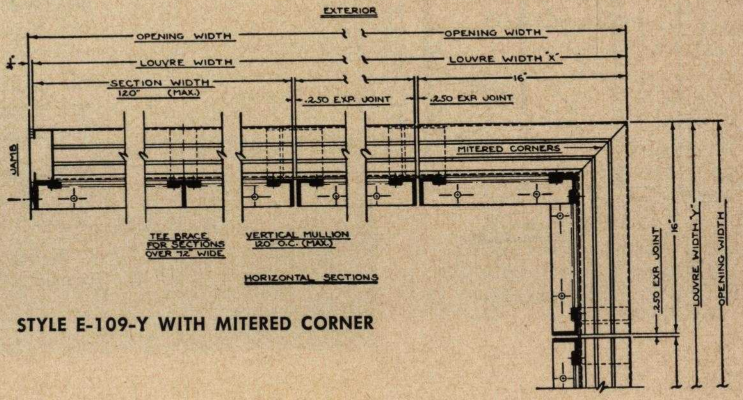
Horizontal sections joined by vertical battens. Here, legs of side channels are turned out per Styles E-109-X and E-110-X (see page 10).

CONTINUOUS BLADE

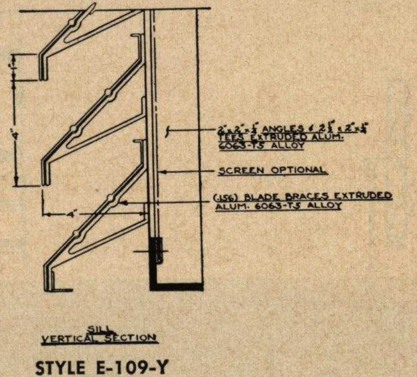
Extruded aluminum fixed blade louvres can be furnished made in sections but with a continuous blade appearance on the exterior. This permits architectural freedom in the use of louvres with horizontal lines as an integral part of building design.

The continuous blade appearance can be achieved with either of the two extruded aluminum fixed blade shapes. Specify **Style E-109-Y** or **Style E-110-Y.** As illustrated by the drawings at the right, these styles employ louvre sections joined and supported by extruded aluminum blade supports, angles and stiffeners.

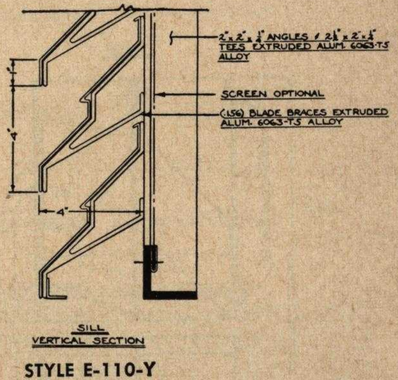
When required, heliarc welded mitered corners are available to reinforce the continuous blade appearance.



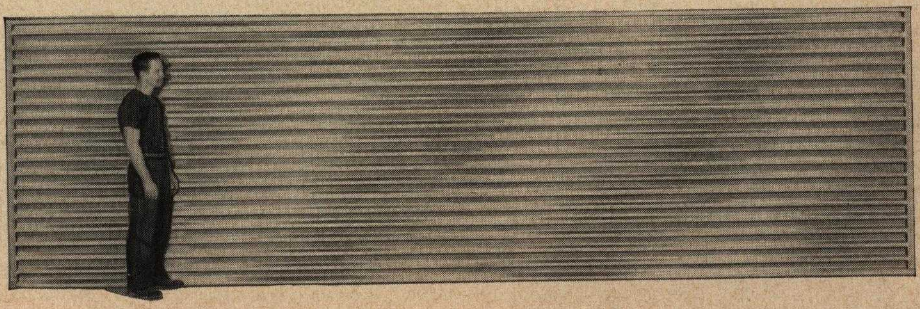
STYLE E-109-Y WITH MITERED CORNER


4"
4"
2" x 2" x ¼" ANGLES & 2½" x 2" x ¼" TEES EXTRUDED ALUM. 6063-T5 ALLOY
SCREEN OPTIONAL
(.156) BLADE BRACES EXTRUDED ALUM. 6063-T5 ALLOY
SILL
VERTICAL SECTION

STYLE E-109-Y


2" x 2" x ¼" ANGLES & 2½" x 2" x ¼" TEES EXTRUDED ALUM. 6063-T5 ALLOY
SCREEN OPTIONAL
(.156) BLADE BRACES EXTRUDED ALUM. 6063-T5 ALLOY
4"
4"
SILL
VERTICAL SECTION

STYLE E-110-Y



Ellison Style E-109-Y fixed blade louvre with continuous blade appearance, made 20'0" wide x 6'6" high.

ELLISON COMBINATION LOUVRES

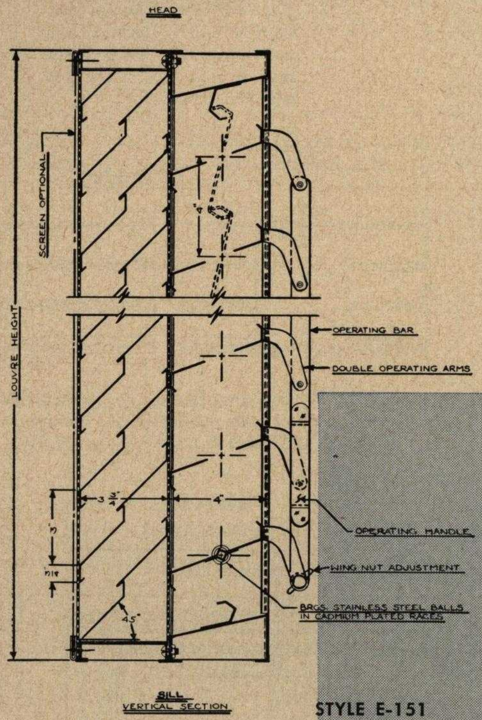
HEAVY DUTY

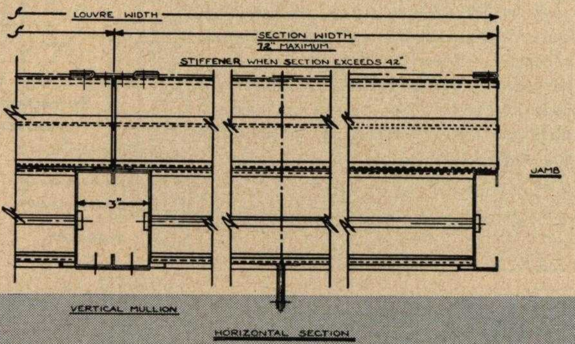
Exterior fixed blade louvres offer constant protection against the elements where movable blade louvres on the interior side must be operative under all conditions. Combination louvres are strongly recommended wherever louvres are used in unprotected openings for air intake.

Any of the fixed and movable blade heavy duty louvres illustrated on the preceding pages can be used to form combination units.

The automatic louvres shown on page 13 can also be combined with fixed blade louvres.

Standard combination styles are described below, but choice is not limited to the combinations of blade designs and materials shown. With a minimum 10" wall, it is possible to combine fixed extruded continuous blade louvres and multiple section movable blade formed or extruded louvres.





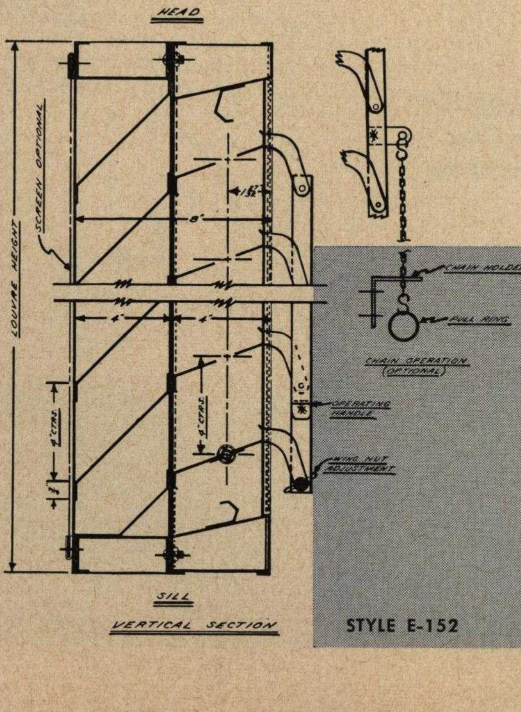
STYLE E-151

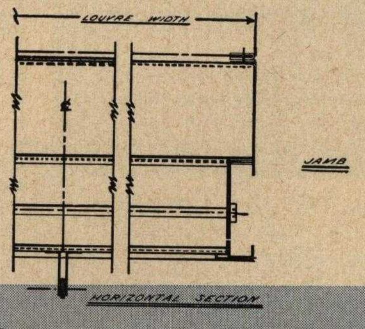
Style E-151 This sheet metal louvre combines fixed Style E-110 and movable Style E-101 illustrated on pages 10 and 6. Standard thickness is 7¾".

The fixed segment is 26 gauge galvanized steel, or equal. When specified, it can be 16 gauge steel, or metals of equal thickness. The movable segment is 16 gauge steel, or equal.

Style E-151-W Made of 12 gauge extruded aluminum. Combines fixed Style E-110-W and movable Style E-101-W illustrated on pages 10 and 6. Thickness is always 8".

If desired, the fixed segment can be Style E-110-X with legs of side channels turned out. See page 10.





STYLE E-152

Style E-152 This sheet metal louvre combines fixed Style E-109 and movable Style E-101 illustrated on pages 10 and 6. Standard thickness is 8".

The standard material is 16 gauge steel, or other metals of equal thickness.

The fixed blade segment can be Style E-111, page 10, if specified.

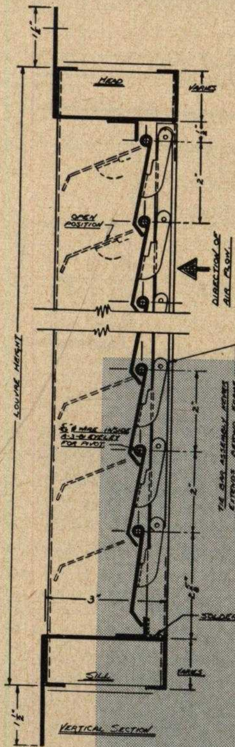
Style E-152-W Made of 12 gauge extruded aluminum. A combination of fixed Style E-109-W and Style E-101-W illustrated on pages 10 and 6. Over-all thickness is 8".

If desired, the fixed segment can be Style E-109-X with legs of side channels turned out. See page 10.

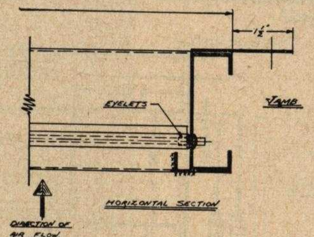
ELLISON AUTOMATIC LOUVRES

Ellison Automatic Louvres are designed for automatic air intake or pressure relief. They are not manually adjustable.

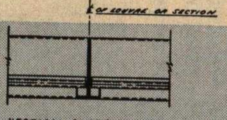
The blades of both styles illustrated below respond automatically to air pressure. Blades close by gravity when air flow ceases. Style E-113-D-1 makes use of light aluminum blades, while Style E-120 employs heavy gauge blades finely balanced by a counter-weighted bar.



VERTICAL SECTION



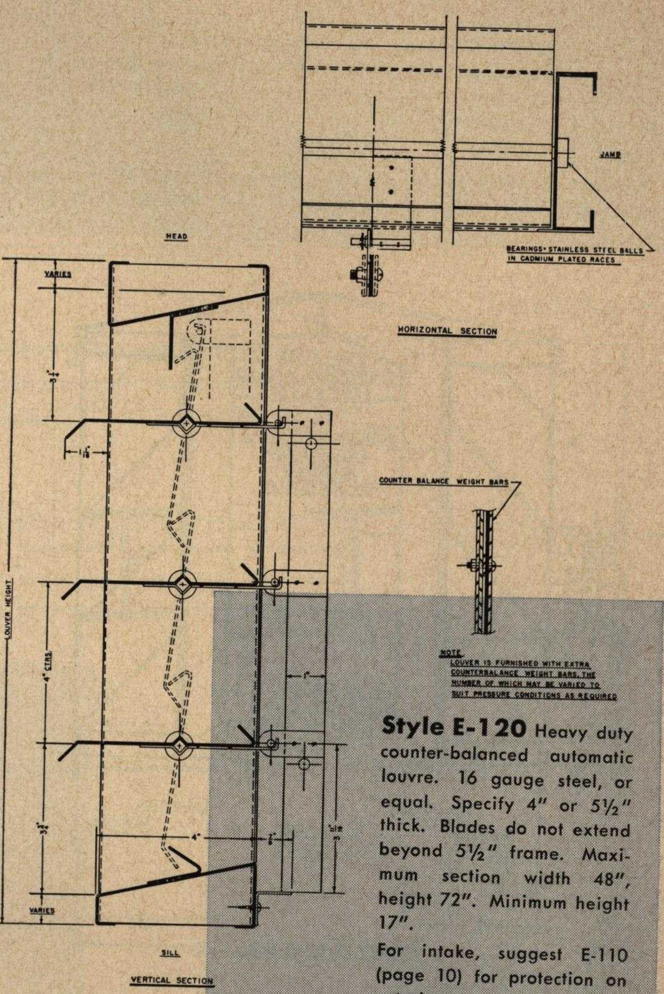
HORIZONTAL SECTION



VERTICAL BLADE DIVIDER LOUVRES FROM 32" TO 60" WIDE. BLADES ONLY MADE IN 2 SECTIONS.

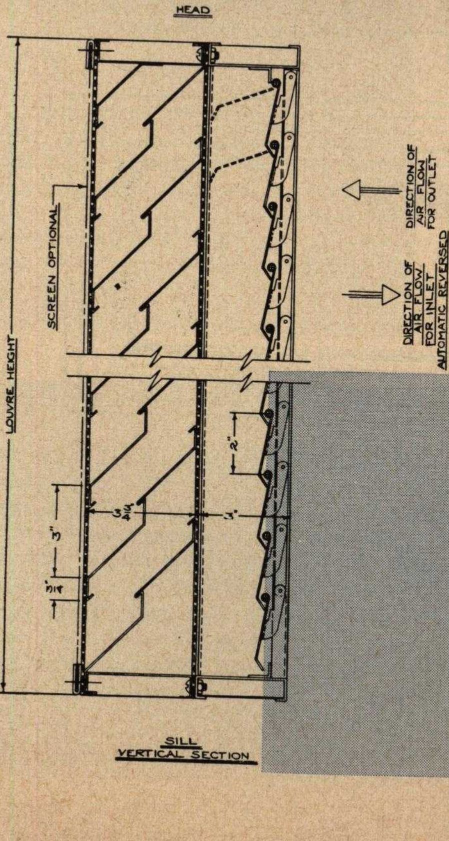
Style E-113-D-1 Automatic sheet metal louvre. Blades 20 gauge aluminum only. Frame 16 gauge steel, or equal. 3" thick.

For exhaust or intake, with flat flange all around one side. For intake in unprotected opening, Style E-119 (below) is recommended.

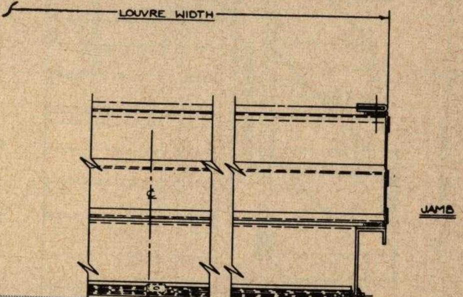

JAMB
BEARINGS - STAINLESS STEEL BALLS IN CADMIUM PLATED RACES
HORIZONTAL SECTION
HEAD
VARIES
3¼"
1⅛"
LOUVER HEIGHT
4" CTRS.
1"
3¼"
4"
⅞"
3 11/16
VARIES
SILL
VERTICAL SECTION
COUNTER BALANCE WEIGHT BARS
NOTE
LOUVER IS FURNISHED WITH EXTRA COUNTERBALANCE WEIGHT BARS, THE NUMBER OF WHICH MAY BE VARIED TO SUIT PRESSURE CONDITIONS AS REQUIRED

Style E-120 Heavy duty counter-balanced automatic louvre. 16 gauge steel, or equal. Specify 4" or 5½" thick. Blades do not extend beyond 5½" frame. Maximum section width 48", height 72". Minimum height 17".

For intake, suggest E-110 (page 10) for protection on exterior.


HEAD
LOUVRE HEIGHT
SCREEN OPTIONAL
DIRECTION OF AIR FLOW FOR OUTLET
DIRECTION OF AIR FLOW FOR INLET AUTOMATIC REVERSED
2"
3¾"
3"
3"
3¼"
SILL

VERTICAL SECTION



HORIZONTAL SECTION

Style E-119 This sheet metal louvre combines fixed Style E-110 (page 10) and automatic Style E-113-D-1 (above). Over-all thickness is 6¾".

The fixed segment is 26 gauge galvanized steel, or equal. When specified, it can be 16 gauge steel, or metals of equal thickness. The automatic segment has 20 gauge aluminum blades only, with the frame of 16 gauge steel, or equal.

This style is always recommended for protection against the elements when automatic louvres are used for intake in unprotected openings.

Other fixed styles illustrated on page 10 can be used in combination with automatic Style E-113-D-1.

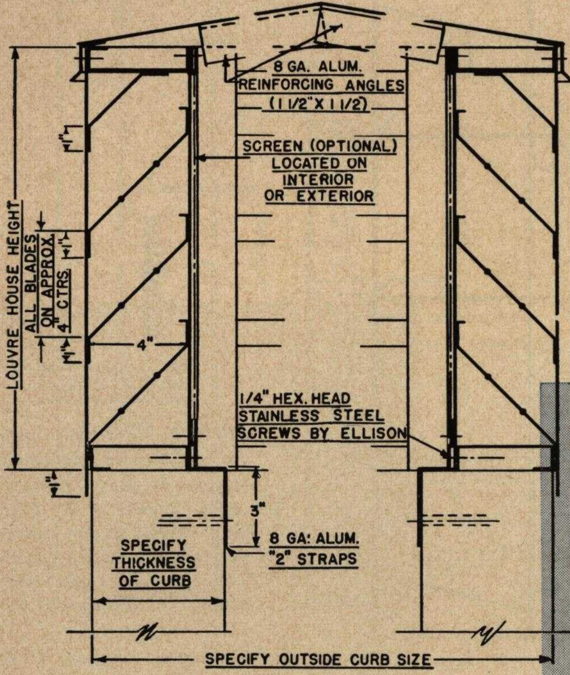
ELLISON LOUVERED PENT-HOUSES

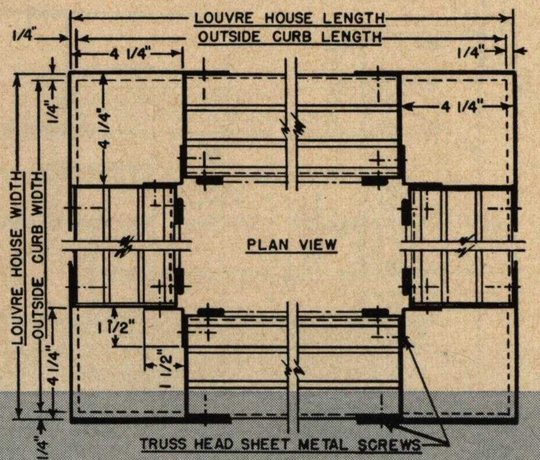
EXTRUDED ALUMINUM

The Ellison Louvre Company, Inc. is equipped to furnish extruded aluminum louvred pent-houses to meet the increasing demand for protected roof exhaust and intake openings as employed with modern ventilating systems.

The drawings below illustrate the two Ellison pent-house styles available. The basic difference in design is that Style E-191-W has visible corner cover plates, while Style E-191-Y has heliarc welded mitered blade corners for a continuous blade appearance.

Style E-191-W with visible corner covers is less expensive than Style E-191-Y with mitered corners which require considerably more labor in assembly. In addition, Style E-191-W has a distinct advantage in that movable blade extruded louvres can be used. Mitered corner units can only be furnished with fixed blade louvres.

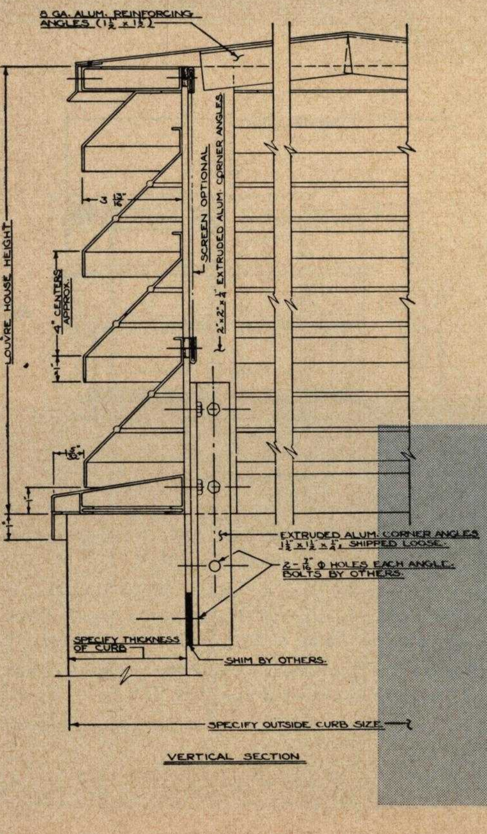




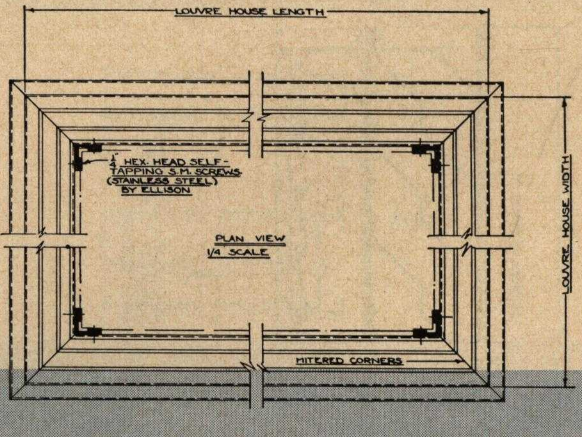
Style E-191-W Louvred pent-house with visible corner covers. Louvres are made of 12 gauge aluminum extrusions, alloy 6063-T5. Corner covers, roof and flanges are of 12 gauge aluminum sheets, alloy 3003-H14.

Louvres can be fixed blade Styles E-109-W or E-110-W as illustrated on page 10 or movable blade Styles E-101-W or E-101-W-4 illustrated on page 6. Include desired louvre style when specifying.

Screens can be mounted on either side.



VERTICAL SECTION



Style E-191-Y Louvred pent-house with heliarc welded mitered corners for continuous blade appearance. Louvres are of 12 gauge aluminum extrusions, alloy 6063-T5. Roof and flanges are of 12 gauge aluminum sheets, alloy 3003-H14.

Louvres can be continuous blade Styles E-109-Y or E-110-Y as illustrated on page 11. Specify desired louvre style. See the drawing on page 11 for continuous blade and mitered corner construction.

Screens are mounted on the interior.

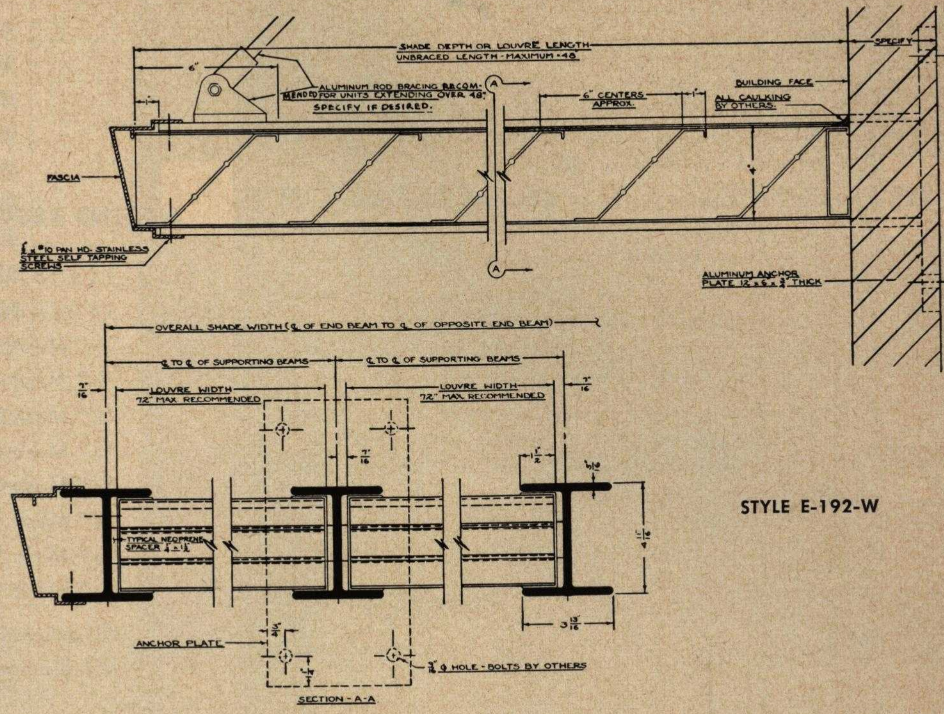
ELLISON LOUVERED SUNSHADE

EXTRUDED ALUMINUM

Combining lightness of weight with excellent strength and rigidity, aluminum extrusions are in increasing demand by architects and owners for use in the fabrication of louvred sunshades. Ellison louvred sunshades are for installation wherever reduction of sun glare and heat through glass areas is required. While serving this very utilitarian purpose, they also add beauty of line to modern building design.

Style E-192-W Louvre frames and blades are 12 gauge aluminum extrusions, alloy 6063-T5. The fascia is 1/8" extruded aluminum, alloy 6063-T5. Supporting beams are 5/16" aluminum extrusions, alloy 6063-T6.

The recommended unbraced length, or extension from the building, is 48". Aluminum rod bracing is available for units extending beyond 48". The maximum section width is 72". Neoprene spacers allow for contraction and expansion.


SHADE DEPTH OR LOUVRE LENGTH
UNBRACED LENGTH - MAXIMUM - 48"
SPECIFY
6"
1"
ALUMINUM ROD BRACING RECOMMENDED FOR UNITS EXTENDING OVER 48". SPECIFY IF DESIRED.
A
6" CENTERS APPROX.
1"
BUILDING FACE
ALL CAULKING BY OTHERS.
FASCIA
4"
1/4 x #10 PAN HD. STAINLESS STEEL SELF TAPPING SCREWS
ALUMINUM ANCHOR PLATE 12 x 6 x 3/4 THICK
OVERALL SHADE WIDTH (℄ OF END BEAM TO ℄ OF OPPOSITE END BEAM)
℄ TO ℄ OF SUPPORTING BEAMS
℄ TO ℄ OF SUPPORTING BEAMS
7/16"
LOUVRE WIDTH 72" MAX RECOMMENDED
LOUVRE WIDTH 72" MAX RECOMMENDED
7/16"
7/16"
1 1/2"
5/16
TYPICAL NEOPRENE SPACER 1/4 x 1 1/2
4 11/16"
3 13/16"
ANCHOR PLATE
3/4"
9/16 ⌀ HOLE - BOLTS BY OTHERS
SECTION - A-A

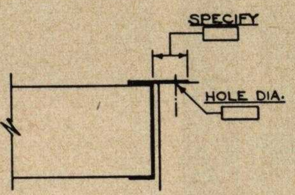
STYLE E-192-W

INSTALLATION METHODS HEAVY DUTY LOUVRES

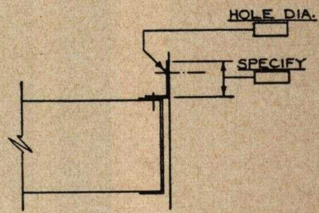
When specifying or ordering heavy duty louvres, consideration should be given to the manner in which they are to be installed. Installation methods are determined by louvre opening conditions and whether louvres are to be installed after or during construction of the walls.

These drawings illustrate standard methods of installing heavy duty Ellison Louvres. In general, strap anchors, and flanges or angles all around one side only, are furnished at no charge. Flanges or angles on both sides require a slight addition in price. Screws or expansion bolts and shields are obtained elsewhere by the purchasing contractor.

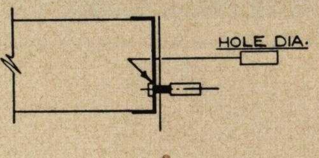
FLANGE



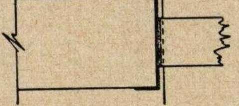
ANGLE FLANGE



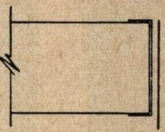
ANCHOR BOLTS @ JAMBS



MASONRY ANCHORS @ JAMBS



BY OTHERS



SILLS HEAVY DUTY LOUVRES

Occasionally, heavy duty louvres are desired complete with special drip sills or sill extensions. Sheet metal sills of the same material as the louvres can usually be fabricated to the desired shape, assuming there are no more than three bends in any given piece.

Extruded aluminum sills are sometimes specified for use with either sheet aluminum or extruded aluminum louvres. Many extruded sills are cataloged by aluminum producers and the more commonly used pieces are normally obtainable from warehouses.

An extended bottom frame sill of extruded aluminum is stocked by Ellison for use with extruded louvres as an alternate to the standard bottom frame construction. In this manner, the sill piece becomes an integral part of the louvre.

When specified, and thought preferable to standard caulking methods, extruded caulking stops can be supplied for use with extruded aluminum louvres. In most cases, the use of special stops is not necessary.

SCREENS

Ellison Louvres are equipped with screens only when specified. Unless otherwise specified, screens are mounted in our standard folded frame as in the photograph below. The screen is attached with screws to the face of the louvre frame and is readily removable.

Rewirable formed aluminum frames for insect screen and extruded aluminum frames for insect or bird screen can be furnished, but only if specified.

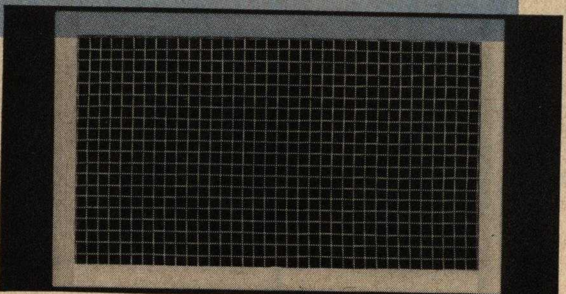
Types of screen listed at the right are regularly in stock ready for immediate use. When other types of screen are specified, they can often be obtained, but almost always at high prices and at the cost of a shipping delay.

Screens are available as an accessory for louvres under production and are priced accordingly. While screen can be furnished without louvres, screen prices on that basis must be considerably higher.

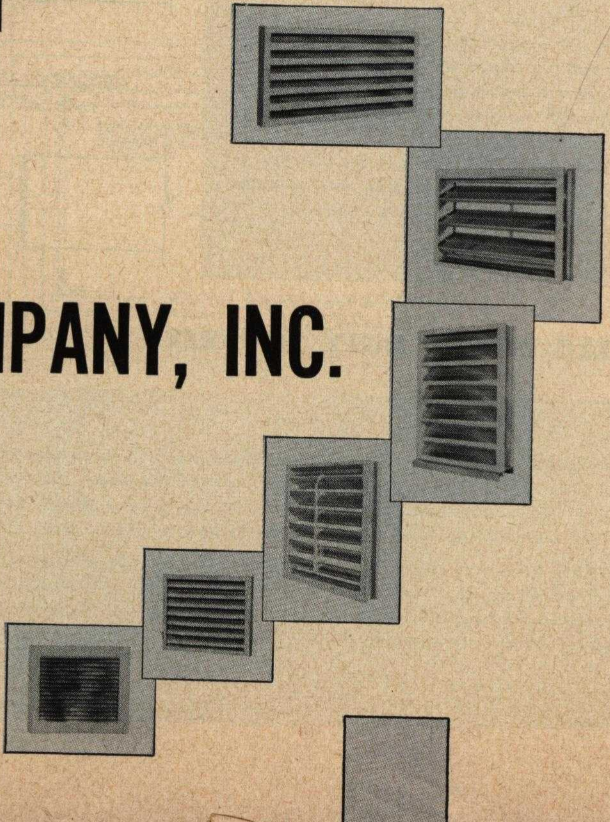
SCREENS REGULARLY AVAILABLE

- 14 x 18 Mesh Bronze Insect
- 14 x 18 Mesh Aluminum Insect
- ½" Mesh 16 Gauge Galvanized Steel
- ½" Mesh 12 Gauge Galvanized Steel
- ¼" Mesh 16 Gauge Galvanized Steel
- ½" Mesh 16 Gauge Aluminum
- ½" Mesh 14 Gauge Aluminum
- ¼" Mesh 16 Gauge Aluminum
- ½" Mesh 16 Gauge Copper
- ¼" Mesh 16 Gauge Copper

All protective screen is square mesh, *not* diamond mesh.



Bird screen in standard folded frame.



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MARIETTA, OHIO

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